IN THE CLAIMS:

Please cancel claims 9 and 14-22 without prejudice or disclaimer.

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1. (Amended) A method for fabricating a silicide for a semiconductor device, said method comprising:

depositing a metal containing silicon or an alloy thereof on a silicon substrate; reacting said metal containing silicon or said alloy to form a first silicide phase; etching any unreacted metal containing silicon or alloy; depositing a silicon cap layer over said first silicide phase; reacting the silicon cap layer to form a second silicide phase, for said semiconductor

device; and

etching any unreacted silicon.

(Amended) A method for fabricating a silicide for a silicon region, said method comprising:

depositing a metal containing silicon or an alloy thereof on a bulk silicon substrate;

reacting said metal containing silicon or said alloy to form a first silicide phase;

etching any unreacted metal containing silicon or alloy;

depositing a silicon cap layer over said first silicide phase;

reacting the silicon cap layer to form a second silicide phase; and

etching any unreacted silicon.

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5. (Amended) The method of claim 4, wherein said depositing of said metal containing silicon comprises performing a blanket deposition of a metal comprising one of Co and Ti.

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8. (Amended) The method of claim 4, wherein said reacting of said metal comprises performing a first rapid thermal anneal (RTA) to form a metal-silicon phase, such that the deposited metal containing silicon with the underlay Si, converts some of the Si into metal-Si,

wherein said etching comprises selectively etching any unreacted metal, thereby leaving the metal-silicon regions intact,

wherein said depositing comprises performing a blanket deposition of a silicon film, and wherein said reacting of said silicon cap comprises performing a second RTA to form a metal di-silicide.

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(Amended) A method for fabricating a silicide for a silicon region, said method comprising:
depositing a metal or an alloy thereof on a bulk silicon substrate;
reacting said metal or said alloy to form a first silicide phase;
etching any unreacted metal or alloy;
depositing a silicon cap layer over said first silicide phase;
reacting the silicon cap layer to form a second silicide phase; and

wherein said metal is co-deposited with silicon.

etching any unreacted silicon,

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13. (Amended) A method for fabricating a silicide, said method comprising:

providing a substrate having a silicon layer;

depositing a metal containing silicon or an alloy over said silicon layer;

reacting said metal containing silicon or said alloy to form a first silicide phase;

etching any unreacted metal containing silicon or alloy; and

depositing a silicon cap layer over said metal containing silicon or said alloy;

reacting the silicon cap layer, to form a second silicide phase; and

etching any unreacted silicon.

Please add the following new claims:

- --23. The method of claim 1, wherein said first silicide phase comprises the first forming silicide phase.
- 24. The method of claim 4, wherein said first silicide phase comprises the first forming silicide phase.
- 25. A method for fabricating a silicide for a semiconductor device, said method comprising:

 depositing a metal or an alloy thereof on a silicon substrate;

 reacting said metal or said alloy to form a first forming silicide phase;

 etching any unreacted metal or alloy;